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ESTIMATED POTATO STOCKS AND PRODUCTION

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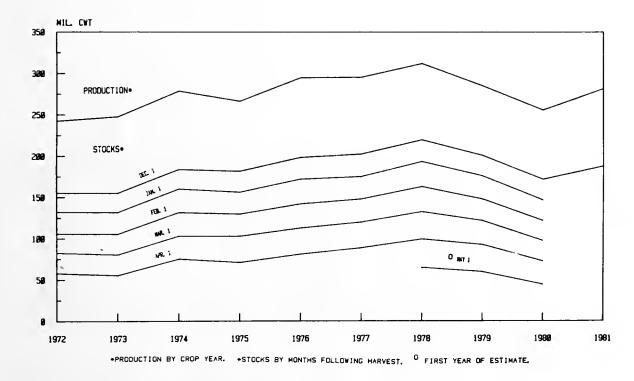
POTATO STOCKS UP 9 PERCENT FROM YEAR EARLIER

Potato stocks as of December 1, 1981 are estimated at 188 million cwt (8.52 million metric tons) in the 15 major fall producing States. This is 9 percent above December 1, 1980 but 6 percent less than two years ago. Of the total stocks on hand in the 11 major States, 71 percent were Russets, 25 percent Whites and 4 percent Reds.

In the <u>three Eastern States</u>, estimated holdings are 31.2 million cwt, 15 percent above a year ago but 8 percent below December 1, 1979. Stocks in Maine total 21.3 million cwt, up 13 percent from a year ago.

(Comments continued on page 7)

FALL POTATOES: PRODUCTION AND STOCKS



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NOTE: Stocks are defined as the quantity remaining in storage for all purposes and uses, including shrinkage and waste and other losses that occur after the date of each report. Sales of fall potatoes for all purposes generally account for about 90 percent of the total fall production. Shrinkage and loss and home use account for the remaining 10 percent.

TABLE 1. FALL POTATOES: DECEMBER 1, JANUARY 1, FEBRUARY 1, MARCH 1, APRIL 1, AND MAY 1 TOTAL STOCKS, AND COMPARABLE PRODUCTION FOR 15 STATES ESTIMATING POTATO STOCKS 1/

CR OP YE AR	: : PRODUCTION	: DEC 1 :	JAN 1 :	FEB 1 :	MAR 1 :	: APR 1 :	MAY 1
	:			1,000 CWT			
1971 <u>2/</u> 1972 1973 1974 1975 1976 1977 1978 1979 1980	: 258,613 : 242,390 : 247,686 : 278,679 : 266,422 : 294,978 : 295,421 : 311,981 : 285,060 : 255,691 : 281,375	172,550 155,190 154,890 183,850 181,720 198,630 202,550 219,850 200,820 171,730 187,790	148,600 132,050 131,600 160,100 156,220 172,230 175,300 193,520 176,020 146,610	122,350 105,690 105,360 131,480 129,710 142,030 147,930 162,980 147,910 121,565	97,150 82,510 80,460 102,963 102,850 112,830 119,850 132,570 121,720 97,280	57,860 55,465 75,217 70,970 81,130 88,680 99,250 92,550 72,460	64,830 59,535 44,446

^{1/} SEE TABLE 3 FOR LIST OF 15 STATES.

TABLE 2. POTATOES USED FOR PROCESSING 1/, SEVEN STATES, 1980 AND 1981 CROPS

	: STORAGE : SEASON :	TO : DEC 1 :	TO :	TO :	: TO : MAR 1	: TO : APR 1	TO MAY 1	ENTIRE SEASON
IDAHO AND MALHEUR CO., OREG	: : 1980-81 : 1981-82	14,460 16,720	18,710	23,230	28,110	33,570	39,210	52,720
MAINE <u>2</u> /	1980-81 1981 - 82	2,190 2,220	2,880	3,510	4,245	4,980	5,885	6,660
WASH AND OTHER AREAS, OREG	: : 1980-81 : 1981-82	14,610 17,240	16,845	19,725	23,710	27,405	31,500	39,020
OTHER STATES 3/	1980-81 1981-82	2,355 2,860	2,890	3,745	4,565	5,205	6,105	7,550
TOTAL	1980-81 1981 - 82	33,615 39,040	41,325	50,210	60,630	71,160	82,700	105,950

^{1/} TOTAL QUANTITY RECEIVED AND USED FOR PROCESSING REGARDLESS OF THE STATE IN WHICH THE POTATOES WERE PRODUCED. DOES NOT INCLUDE QUANTITIES USED FOR POTATO CHIPS IN MAINE, MICH OR MINN. 2/ INCLUDES MAINE, GROWN POTATOES ONLY. 3/ MICH, MINN AND N DAK.

^{2/} BEGINNING WITH 1971, LATE SUMMER PRODUCTION FOR N Y - L I, WIS AND WASH HAS BEEN CLASSIFIED AS FALL.

TABLE 3. POTATOES: PRODUCTION AND TOTAL STOCKS OF FALL POTATOES HELD BY GROWERS, PROCESSORS, AND LOCAL DEALERS ON DECEMBER 1, 1980 AND DECEMBER 1, 1981

	:	CR OP OF 1980	:		CROP OF 1981	
STATE	PRODUCTION	: :TOTAL STOCKS: :DEC 1, 1980 :		PRODUCTION		
	: 1,00	O CWT	PERCENT	1,00	OO CWT	PERCENT
CALIF COLO IDAHO MAINE MICH MINN MONT	6,438 : 10,950 : 79,840 : 24,960 : 7,403 : 9,920 : 1,725	4,200 7,850 59,000 18,900 4,500 8,400 1,630	65 72 74 76 61 85 94	6,734 12,000 80,040 26,520 7,050 13,300 1,739	4,300 8,500 57,500 21,300 5,000 9,100 1,650	64 71 72 80 71 68 95
NEBR N Y - L I - UPSTATE N DAK OHIO OREG PA WASH	: 1,876 : 4,794 : 6,250 : 15,680 : 1,995 : 19,745 : 4,180 : 43,935	1,400 1,850 3,100 10,700 500 13,300 3,300 24,500	75 39 50 68 25 67 79 56	2,252 5,365 6,875 20,125 1,845 21,710 5,250 52,380	1,850 1,860 4,050 14,500 680 15,200 4,000 29,200	82 35 59 72 37 70 76 56
WIS 15 STATE TOTAL	16,000 : 255,691	8,600 171,730	54 67	18,190	9,100 187,790	50 67

RELIABILITY OF DECEMBER 1 PRODUCTION AND STOCKS ESTIMATES

To assist users in evaluating the reliability of production and stocks estimates in this report, the "Root Mean Square Error", a statistical measure based on past performance, is shown below. This is computed by expressing the deviations between the December 1 estimates and the final estimates as a percent of the final estimates and averaging the squared percentage deviations for the 1961-80 twenty year period; the square root of this average becomes statistically the "Root Mean Square Error". Probability statements can be made concerning expected errors in the current estimates relative to the final estimates, assuming that factors affecting this year's estimates are not different from those of recent years. For example, the "Root Mean Square Error" for the December 1 stocks estimate is 1.9 percent. This means that the chances are 2 out of 3 that the current estimate of 188 million cwt will not be above or below the final estimate by more than 1.9 percent or approximately 3.6 million cwt. Chances are 9 out of 10 (90 percent confidence level) that the difference will not exceed 3.4 percent or approximately 6.4 million cwt.

Also shown below is the 10-year (1971-80) record of the differences between the December 1 production and stocks estimates and the final estimates. Using stocks again as an example, changes between the December 1 estimate and the final estimate during the 10 years have averaged 3.07 million cwt, ranging from 0.52 million to 6.25 million cwt. During this 10-year period the December 1 estimate has been below the final estimate 9 out of 10 years.

RELIABILITY OF DECEMBER 1 FALL POTATO ESTIMATES

	:		ROOT I SQUARE		:	TEN	YEAR RECORD DEC 1 AND			ETWE	EN
CROP AND ESTIMATE	:		: 90%	 FIDENCE VEL	:		QUANTITY	:	NUMBER	0F	YEARS
	:	PERCEN		 	•	AVERAGE	: :SMALLEST:	: LARGEST:	BELOW FINAL		
	:			MILL ION CWT	:	MILLION CWT	MILL ION	MILL ION CWT			
FALL POTATO STOCKS FALL POTATO PRODUCTION	-	1.9	3.4 2.6	6.38 7.56	:	3.07 3.79	0.52 1.63	6.25 6.47	9 9		1

TABLE 4. FALL POTATOES: STOCKS BY TYPE AS PERCENT OF TOTAL STOCKS, DECEMBER 1, 1981, 11 MAJOR STATES

	:							
STATE	:	REDS	:	WHITES	:	RUSSETS	:	TOTAL
	 :				PERCENT			
:0L0	:	• 10		5		85		100 100
DAHO AINE	:			2/71		1/2/100 29		100
1CH <u>4</u> / INN	:	21		50		29		100 100
Y DAK	:	25		<u>2/3</u> /100 64		11		100 100
REG 4	:			<u>2</u> /100		1/2/100		100 100
ASH IS	:	6		2B		<u>1/2</u> /100 66		100
1 STATE TOTAL	; ;	4		25		71		100

^{1/} INCLUDES SMALL QUANTITIES OF WHITES, LESS THAN 5 PERCENT OF TOTAL.
2/ INCLUDES SMALL QUANTITIES OF REDS, LESS THAN 5 PERCENT OF TOTAL.
3/ INCLUDES SMALL AMOUNT OF RUSSETS, LESS THAN 5 PERCENT OF TOTAL.
4/ NOT PUBLISHED TO AVOID DISCLOSURE OF INDIVIDUAL OPERATIONS.

FALL POTATOES

STATE	:	AREA	HARVESTE0	:		YIELD	:	PI	RODUCTION	
STATE	:	1979 :	1980	IND : 1981	1979	1980 :	IND : 1981 :	1979	1980	INO 1981
********	:	1,(000 ACRES			CwT		1	,000 C	wT
ALIF	:	17.2	17.4	18.2	370	370	370	6,364	6,438	6,73
DLO	:	39.5	36.5	40.0	290	300	300	11,455	10,950	12,00
ONN	:	2.1	1.8	1.8	055	225	270	462	405	48
DAHO SW (10 COUNTIES)	:	30.0	23.0	24.0	335	340	325	10,050	7,820	7,80
AHO OTHER AREAS	:	300.∪	277.0	301.0	250	260	240	75,000	72,020	72,24
10	:	4.2	3.3	3.0	255	220	205	1,071	726	61
NINE	:	113.0	104.0	104.0	245	240	255	27,685	24,960	26,52
SS	:	3.4	3.4	3.3	550	2 2 0	225	748	748	74
СН	:	32.0	31.5	30.0	250	235	235	8,000	7,403	7,05
[NN	:	6A.0	64.0	70.0	190	155	190	12,920	9,920	13,30
INT	:	7.5	6.9	7.4	240	250	235	1,800	1,725	1,73
8R	:	5.7	6.7	7.9	260	280	285	1,482	1,876	2,25
V	:	15.0	13.0	12.0	330	340	290	4,950	4,420	3,48
Y LONG ISLAND	:	21.8	18.8	18.5	295	255	290	6,431	4,794	5,36
Y UPSTATE	:	23.5	25.0	25.0	275	250	275	6,463	6,250	6,87
DAK	:	114.0	112.0	115.0	160	140	175	18,240	15,680	20,12
10	:	10.0	9.5	9.0	240	210	205	2,400	1,995	1,84
REG MALHUER	:	13.0	10.0	10.0	370	365	345	4,810	3,650	3,45
EG OTHER AREAS	:	50.0	37.0	44.0	410	435	415	20,500	16,095	18,26
	:	24.0	22.0	21.0	250	190	250	6,000	4,180	5,25
I	:	3.3	3.2	3,2	230	230	250	759	736	80
DAK	:	6.5	6.7	5.4	185	160	130	1,203	1,072	70
AH	:	5.5	5.2	5.8	250	225	220	1,375	1,170	1,27
•	:	. 7	.6	. 7	210	200	210	147	120	1 4
SH	:	102.0	67.0	108.0	475	505	465	48,450	43,935	52,38
S	:	54.0	50.0	53.5	315	320	340	17,010	16,000	18,19
10	:	5.2	5.7	5.3	220	235	200	1,144	1,340	1,06
S	:	1,071.1	981.2	1,047.0	277	272	278	296,919	266,428	290,68

TABLE 6. AREA PLANTED, FALL POTATOES

	IADLE O. AK	EA PLANIED, FALL POTA	1023
STATE	: : 1979 :	: : 1980 :	: : 1981 :
	:	1,000 ACR	ES
CALIF COLO CONN IDAHO - SW CO OTHER CO. IND MAINE MASS MICH MINN MONT NEBR NEV N Y - L I - UPSTATE N DAK OHIO OREG - MALHEUR CO OTHER CO. PA R I S DAK UTAH VT WASH WIS WYO	17.4 40.0 2.1 30.0 305.0 4.3 116.0 3.5 33.0 70.0 7.5 6.0 15.0 22.0 25.5 121.0 10.4 13.5 52.0 25	17.4 37.0 1.8 23.0 282.0 3.6 108.0 3.4 32.5 65.0 7.0 6.9 13.0 19.0 26.0 114.0 10.5 37.5 23.0 3.2 7.3 5.3 687.0 52.5 5.8	18.2 40.5 1.8 24.0 306.0 3.3 106.0 3.3 32.0 73.0 7.5 8.0 12.0 18.5 26.5 119.0 9.8 10.3 44.7 22.0 3.2 5.5 5.9 .7 108.0 55.0 5.5
TOTAL	: 1,100.7	1,002.3	1,070.2

1981 POTATO OBJECTIVE YIELD SURVEY

The Statistical Reporting Service conducted potato objective yield surveys in the 11 major fall producing States in 1981. Sample plots were located in potato fields that were selected on a random basis using a scientifically designed sampling procedure. Field workers recorded counts and measurements from these fields just prior to and immediately after harvest.

The sample data from the objective yield surveys presented in the following tables are presented to provide current information about the crop and are not official estimates.

TABLE 7: POTATOES: HARVEST LOSS BY TYPE OF POTATOES, 1980-81 1/

	STATE AND YEAR	ROUND REDS	ROUND WHITES :	RUSSETS	ALL TYPES
	. LINI	· 	CWT PE	R ACRE	
COLO	1980 1981	: : <u>2/</u> : 29	2/ 2/	35 31	35 30
OHAOI	1980 1981	2/ 2/	<u>2/</u> <u>2</u> /	38 28	38 28
MA INE	1980 1981	2/ 2/	24 21	32 24	26 22
MI CH	1980 1981	: : <u>2/</u> : <u>2</u> /	29 15	43 32	33 19
MINN	1980 1981	: : 15 : 19	21 27	25 24	21 24
NY	1980 1981	: : <u>2/</u> : <u>2</u> /	20 19	<u>2</u> /	20 22
N DAK	1980 1981	: 26 : 24	2 4 28	35 42	26 28
OREG	1980 1981	: : :	<u>2/</u> <u>2</u> /	29 22	28 23
PA	1980 1981	: : <u>2/</u> : <u>2</u> /	32 24		32 23
WASH	1980 1981	<u>2</u> /	<u>2/</u> <u>2</u> /	28 24	28 23
WIS	1980 1 9 81	: : 2/ : 33	25 17	31 20	31 21

 $[\]underline{1}$ / POTATOES LEFT IN THE FIELD AT TIME OF HARVEST. $\underline{2}$ / INSUFFICIENT SAMPLE SIZE.

TABLE 8: POTATOES: AVERAGE NUMBER OF HILLS PER ACRE, BY TYPE, 1980-81 $\underline{1}/$

	ATE	:	RO	JND F	REDS	:	ROL	IND W	NHITES	:		RUSS	SETS
	ND	:	NUMBER OF SAMPLES	:	AV. NO. HILLS PER ACRE	:	NUMBER OF SAMPLES	:	AV. NO. HILLS PER ACRE	:	NUMBER OF SAMPLES	:	AV. NO. HILLS PER ACRE
COLO	1980 1981	:	8 8		12,144 13,057		<u>2/</u> <u>2</u> /		2/ 2/		67 64		11,520 11,479
I DAHO	1980 1981	:	<u>2/</u>		<u>2/</u> 2/		<u>2/</u> 2/		$\frac{2}{2}$ /		292 321		12,577 12,570
MAINE	1980 1981	:	<u>2/</u>		<u>2/</u> 2/		126 138		16,014 15,018		55 46		10,783 10,370
MICH	1980 1981	:	<u>2/</u> 2/		<u>2/</u> 2/		73 70		12,223 12,302		31 34		11,489 10,430
MINN	1980 1981	:	26 33		10,736 9,876		68 67		10,119 9,813		36 30		9,910 10,623
NY	1980 1981	:	6 7		14,309 12,244		128 97		13,489 13,970		<u>2</u> /		<u>2</u> /
N DAK	1980 1981	:	46 35		10,037 9,246		112 122		9,961 9,751		21 12		9,998 9,085
OREG	1980 1981	:					6 <u>2</u> /		12,722 <u>2</u> /		137 143		13,600 13,709
PA	1980 1981	:	<u>2</u> /		<u>2</u> /		70 76		12,638 12,347				
WASH	1980 1981		<u>2</u> /		<u>2</u> /		13 12		13,213 12,571		149 153		13,798 13,924
WIS	1980 1981	:	16 17		13,141 13,441		30 38		13,161 12,670		73 77		10,683 10,789

 $[\]underline{1}$ / 8ASED ON COUNTS FROM OBJECTIVE YIELD MEASUREMENTS. $\underline{2}$ / INSUFFICIENT SAMPLE SIZE.

Estimated stocks in the <u>six Central States</u> are 40.2 million cwt, 18 percent greater than a year earlier and virtually the same as on December 1, 1979. North Dakota's stocks are up 36 percent compared with a year ago while Minnesota and Wisconsin stocks are up 8 and 6 percent, respectively. Holdings in the <u>six Western States</u> total 116 million cwt, 5 percent greater than on December 1, 1980 but 8 percent below two years ago. Idaho's stocks are estimated at 57.5 million cwt, 3 percent less than a year earlier. Holdings in Washington and Oregon are up 19 and 14 percent, respectively, from December 1, 1980.

<u>Disappearance</u> to December 1, 1981 in the 15 major fall States totals 93.6 million cwt, 11 percent above the same period a year ago. This includes 13.7 million cwt of potatoes dumped during grading, fed to livestock on potato farms, discarded without grading, and lost to shrinkage (moisture loss).

Potatoes processed to December 1, 1981 in the seven major processing States total 39.0 million cwt, 16 percent more than the same period a year ago.

FALL PRODUCTION UP 9 PERCENT

Production of fall potatoes in the U.S. (24 States) is estimated at 291 million cwt (13.2 million metric tons), 9 percent above the 1980 crop, but 2 percent below 1979. Harvested area in the U.S. totaled 1.05 million acres (424 thousand hectares), 7 percent greater than 1980 but 2 percent less than in 1979. The average U.S. yield at 278 cwt per acre was 6 cwt above last year and 1 cwt above the 1979 yield.

In the seven Eastern States, production is estimated at 46.2 million cwt, 9 percent above last year's drought reduced crop but 5 percent below 1979. Harvested area totaled 178 thousand acres, down 1 percent from 1980 and 7 percent less than two years ago. Average yield at 260 cwt per acre was 24 cwt above last year and 6 cwt above 1979. Production in Maine is placed at 26.5 million cwt, 6 percent above the 1980 crop. Late season rains created problems with the Maine potato crop, and some acreage was not harvested because of wet conditions. However, yields were generally better than last year. Wet conditions in Upstate New York during latter October also caused some loss of acreage and reduced yields.

Production in the eight Central States is estimated at 64.1 million cwt, up 17 percent from 1980 and 3 percent above 1979. The average yield at 218 cwt per acre was 25 cwt above a year ago and 6 cwt greater than the 1979 yield. Harvested area totaled 294 thousand acres, 4 percent more than 1980 but slightly less than two years ago. North Dakota's production is set at 20.1 million cwt, 28 percent above 1980. Freezing temperatures during the third week of October caused considerable damage in the Red River Valley. Significant acreage was abandoned while other acreage was later harvested and sold to processors at a discount or was dumped. Acreage and yields were also reduced in Michigan due to excessive rain late in the season. Compared with last year, production in Wisconsin and Minnesota was up 14 and 34 percent, respectively.

In the <u>9 Western States</u> production totaled 180 million cwt, up 6 percent from last year but 3 percent below the 1979 crop. Yields averaged 313 cwt per acre, 14 cwt below last year and 5 cwt less than in 1979. Harvested area at 576 thousand acres, was 11 percent greater than a year ago but 2 percent below 1979. Idaho's production is estimated at 80.0 million cwt, slightly above 1980 but 6 percent below two years ago. Although much of the Idaho crop was later than normal, harvesting conditions were generally good and acreage lost was near average. However, with the atypical growing season there are more small and very large potatoes than normal and a smaller percent grading U.S. #1 potatoes than last year. Production in Washington and Oregon is up 19 and 10 percent from 1980, respectively. Yields in these two States were reduced by the extremely hot weather late in the growing season.

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